		ATTACHMENT TO): <u> </u>	
				25X1A
	e An			
MEMORANDUM FOR: 0	Chief, Technical	Services Group	, NPIC	
ATTENTION : C	Chief, Technical	Operations Stat	ff, TSG	
SUBJECT: : F	RED Monthly Repor	t (March 1972)		
Significant Items	of Interest for	March 1972:		·
1. Evaluation data was collected between the best of performed using NF analyzed by the er	CRT and the hardc PIC PI's. This d	on of interpreopy film. This	s was	25X1A
ahead was given to 30" x 30" screens		to produce the n the Search &	Scan	25X1A
				25X1D
4. Automated of tests of this of	d Coordinate Disp device were perfo		A series o deter-	25X1A
mine if there is a the building to in The tests were neg relatively high ac	sufficient electr nterfere with the gative and the de	romagnetic emis e accuracy of t evice operates	sions in he device.	
the funds allocate The contract is in		ect have been e		25X1A
suspended.				
				25X1A
GROUP 1 Excluded from automatic downgrading and doclassification	TOP SECRET		,	

Declass Review by NIMA/DOD

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25X1A	ATTACHMENT TO:	25X1A
	6. Storage & Retrieval of Digitized Imagery The contractor has evaluated the cost/effectiveness of a wide range of storage techniques and has eliminated most of them on the basis of cost or high technical risk. The contractor, during April, should have narrowed the field to two or three techniques which appear most feasible for our applications.	25X1A
	7. Preacceptance tests were performed by SDB and ESD on the PI Scan & Search Station during the week of 20 March. The instrument met specifications and it will be delivered to NPIC in mid-April.	25X1A
25X1	8. High Intensity Light Source (HILS) has performed preliminary tests on the HILS modification for the light tables. The HILS has a luminance of 25,000 foot lamberts peak color corrected and 120,000 foot lamberts without the color filter. expects to have this	25X1A 25X1A
	item packaged and ready for preacceptance tests early in May.	20/1/
25X1A	9. Dry Silver Roll Film Processor. SDB and ESD reviewed the oreliminary design proposed for this instrument The fabrication of this instrument will remain in a hold status until can provide more information on the processor and until the Government processing facilities can provide information on the acceptability of fixed gamma processing.	25X1A
	10. Latest Dry Silver Materials Tested at Westover. Results of most recent tests on dry silver negative acting film show that it exceeds the performance and approaches the performance of the present operational	25X1
25X1 25X1A	wet silver Further tests will be carried out as new batches of material are produced	25X1A
25X1A	has modified the computer program for the High Precision Stereocomparator and the instrument can now accommodate imagery with high roll angles.	*
25X1A	12. has completed the first part of the modifications approved for the 10" x 10" Stereocomparator. Included in the modifications are: new reticles, a new focus mechanism, and a new decoupling switch for the joystick.	
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25X1A		ATTACHMENT TO:	25X1A
25X1	· .	13. A change-in-scope to the optical services contract to allow additional consultation and to provide for calibration of the image translator was approved. Preliminary work has started on the calibration.	
25X1A		A six-week time extension was given on the Olm contract. It will now end on May 31. This extension will allow more adequate analysis of the experimentation performed during the program and to properly document that analysis in the final report.	
25X1A			
25X1A 25X1A		16 Color Equipment Investigation Program (Densitometer) visited to inspect progress on the automatic densitometer. All design was completed and the various compo-	25X1A
25X1A 25X1A		nents were ready for assembly into the system. 17. Terrain Model Photography - The PAR for the change-in-scope was approved; plans are being made for incorporating large patches in the Model Scene and for making radiometric measurements of the illumination at the time of photography. This will produce photography which is calibrated as to focus, exposure and spectral conditions.	
25X1A 25X1A		18. Color Technology Support - The PAR was approved and contractor notified. A meeting was held between contractor personnel to evaluate preliminary tasks to be done during the program period. It is expected that the work orders will be approved shortly.	
25X1A		a. Impact Resistant Eyeglasses - The contractor conducted two preliminary studies to evaluate the effect of rendering eyeglasses impact resistant upon PI performance. The results indicate that increased error tolerances in optical quality, permitted under a new Food & Drug Administration rating, degraded visual performance.	
25X1A 25X1A		b. Evaluation The contractor furnished the final report on the human factors evaluation of the Stereocomparator.	25X1A
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25X1A	ATTACHMENT TO:	25X1A
25X1D		
25X1	d. CRT Display Evaluation - The contractor has completed the human factors experimental design in support of an contract to evaluate CRT display features.	
	e. Contrast Doubler Evaluation - The contractor submitted a satisfactory final report for a program to assist ESD/TSG in evaluating a prototype contrast doubler.	
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25X1D		:
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	24. currently processing missile launch pads for SPAD. A briefing and demonstration will be held in early April on results obtained.	25X1A
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	ATTACHMENT TO:	
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25X1D		
	26. Software for Automatic Densitometer - Several meetings were held between AID/SSB and RED/ATB personnel to coordinate the hardware-software development for this densitometer. During March the first computer run using simulated densitometer data was successfully completed using AID-developed software. Achieving this milestone at this early date indicates that required software will be on hand to permit operation of the densitometer when it arrives in early summer.	
	27. Implementation of FY-71 Imagery Interpretation Research Program - Each Group and Staff within the Center received a synopsis of the FY-71 IIRD results. Organizations designated as action components will note which research findings and/or recommendations have/have not been implemented along with the rationale for the decision. Results from this program will be employed in developing the follow-on human factors research efforts, and will further insure that past expenditures for human factors research have been justified. A similar plan is currently underway for the FY 69-70 IIRP.	
	28. A revised edition of the <u>Human Engineering</u> <u>Design Guide</u> was delivered to previous recipients of the document. Anyone who holds an earlier edition, and who has not received the revision or anyone else who requires a copy should contact	25X1A
	29. The following proposals are being evaluated:	25X1A
25X1A	a. Front Projection Methods	
	b. Aerial Image Feasibility	25X1A
	c. Resolution Target for MTF Analyzer	25X1A
	d. Eyeshades for Zoom	25X1A
	e. Digital Mensuration	25X1A 25X1A
25X1A	f. Mensuration Parameter Data File	25X1A
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Approved For Release 2004/06/29 : CIA-RDP78B04747A000300020010-6 ATTACHMENT TO: 25X1A 25X1A 25X1A Film Tension Tester g. 25X1 25X1A Vibration Dampening of h. Table Two proposals were received 25X1A One proposes to investigate potential applications of liquid crystal technology to photointerpretation. The other proposes a follow-on project to develop and evaluate highly saturated dyes for use in the 25X1A Both proposals are under evaluation. 25X1A j. A proposal was received help the Center develop a color difference formula using operational color photography and Center PI's. The following projects were approved during March: 25X1A UV State-of-the-Art Review a. 25X1A b. C-in-S PI Scan & Search 25X1A Interactive Viewer С. 25X1A d. Interpupilary Lock for Zoom 15X Eyepieces and 3X Objectives 25X1A 31. Meetings, Briefings, etc.: a. The group was briefed and given demonstrations of the PI Print Station and the High 25X1A Precision Stereocomparator. 25X1A 25X1A c. discuss a request for support by RADC for 25X1A their work with an Automatic Stereo plotter. support requested is magnetic tapes of Microdensity scans by the Image translator. 25X1A TOP SECRET

	ATTACHMENT TO:
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<u> </u>	e. A meeting was held on 13 March between repre-
(1A	sentatives from RED and AID on proposed software support for computers. A follow-up
	meeting on this agenda was convened on 27 March on the specifics of the initial request.
	f. Impact Resistant Lens Evaluation - On
1A	23 March Chief, TSGbriefed person- nel from the Food & Drug Administration on the
	results of an NPIC research program. A recent FDA, ruling requires eyeglass lenses to be impact-
	resistant, but the process of treating the glass may produce warpage of the glass. The results indi-
	cated that warpage tolerated under the rating may adversely effect visual performance.
1	g. Stereo Acuity Testing Support
(1A	TOPOCOM, were briefed by on the Center's vision testing program.
(1A	TOPOCOM plans to meet in the near future with Center management to discuss the Army's participation in the
	Center's program.
Г	32. Personnel Actions:
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